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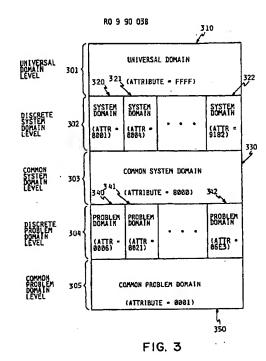
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- (54) Apparatus and method for controlling access to data using domains.
- In an object-based computer system, each object is contained in, and each task executes in, a protection domain. Domains exist at several hierarchical domain levels, (301-305) some levels having multiple discrete domains (320-322; 340-342), while others have one common domain. A task may access an object if the domain in which the task is executing is the same as the domain containing the object, or if the domain in which it is executing occupies a higher hierarchical domain level than the domain containing the object. Each object indudes a domain attribute, which is a numerical value defining the domain in which it is contained. The domain attribute of the currently executing task is stored in a domain register. When an attempt is made to access data within an object, the domain attribute of the object is compared with the domain attribute stored in the domain register. If the access conditions are met, access is permitted.





## EUROPEAN SEARCH REPORT

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EP 91 48 0112

	DUCUMENTS CONS	<b>DERED TO BE RELEVAN</b>	T	
Category	Citation of document with i	ndication, where appropriate, assages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
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Α	* figures 14,412,41	- page 22, line 27 *	1-4, 10-11	
A	8TH INTERNATIONAL CODISTRIBUTED COMPUTI 1988, SAN JOSE, CA pages 18 - 24, XP9 K.SHIMIZU ET AL. 'H Groups in Distribut * page 18, left col left column, line 5	NG SYSTEMS 13 June 12920 Iderarchical Object and Operating Systems' umn, line 1 - page 19, 15 *	1,6,10	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
	Place of search	Date of completion of the courch	`	Expenies
THE HAGUE 17 JUNE		17 JUNE 1993		SCHARFENBERGER B.
CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		E : earlier patent di after the filing other D : document cled L : document cled	T: theory or principle underlying the invention E: carrier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons  A: member of the same patent family, corresponding document	